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(54) FILTERING DEVICE AND METHOD TO REDUCE ARTIFACT IN MOTION PICTURE SIGNAL GROUP

(57)Abstract:

PURPOSE: To reduce an encoding artifact caused by motion compensation conversion encoding based on a block by generating a video signal group which is filtered in terms of space by a space filter bank and a video signal group which is filtered in terms of time.

CONSTITUTION: A video signal bit stream 98 is inputted in a video decoder 99 and a reconstructed digital video signal group 101 and a motion vector 112 are generated. Motion compensation conversion encoding technology is used in the decoder 99. The signal 101 is inputted in an edge direction detector 102 of a back-end filter 100, an edge direction signal 103 of pixels in a video signal frame is inputted in a sub-processor 104 and an edge/non-edge instruction signal 105 is generated. A group of spatial phase filters are controlled in a filter bank 106, the signal group 101 is filtered by a filter selected according to the signal 105 and a video signal frame 107 is generated by the signal 105. The video signal group is outputted with a time phase filter 110 inputted by a buffer 100 and the motion vector signal 112 by three frames consisting of the present, the following and the preceding frames.



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